## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A method for [transforming] <u>producing transgenic seed on</u> a plant comprising the steps of:
  - (a) contacting the meristematic tissue of the plant with a medium comprising DNA;
  - (b) contacting an area of the plant below the meristematic tissue of step (a) with a positive lead of a power source;
  - (c) contacting the medium comprising DNA with a negative lead of the power source; [and]
  - (d) applying a low amperage current from the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the plant; and
  - (e) pollinating the transformed plant to produce fertile transformed seed on the transformed plant.
- 2. (Original) The method of Claim 1, wherein the plant is a dicot.
- 3. (Original) The method of Claim 2, wherein the plant is a soybean plant.
- 4. (Original) The method of Claim 1, wherein the plant is a monocot.
- 5. (Original) The method of Claim 1, wherein the plant is a seedling.
- 6. (Original) The method of Claim 1, wherein the DNA is a plasmid vector.
- 7. (Original) The method of Claim 6, wherein the plasmid vector is linearized.
- 8. (Original) The method of Claim 6, wherein the plasmid contains the gene for barley oxalic oxidase.

- 9. (Original) The method of Claim 1, wherein the current is about 0.01 to about 1.0 mA.
- 10. (Original) The method of Claim 1, wherein the current is about 0.1 to about 0.5 mA.
- 11. (Original) The method of Claim 1, wherein the meristematic tissue is an apical meristem.
- 12. (Original) The method of Claim 1, wherein the meristematic tissue is a lateral meristem.
- 13. (Original) The method of Claim 1, wherein the meristematic tissues is a meristematic dome.
- 14. (Original) The method of Claim 1, wherein the area of the plant below the meristematic tissue is a root.
- 15. (Original) The method of Claim 1, wherein the area of the plant below the meristematic tissue is a stem.
- 16. (Original) A transgenic plant produced by the method of Claim 1.
- 17. (Currently added) A transgenic plant produced from the transgenic seed of claim1.
- 18. (Currently added) Transgenic seed set on a self-pollinated transgenic plant produced by the method of claim 1.
- (Currently added) A homozygous plant produced from the transgenic seed of claim 18.